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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-01-02** **Date: 03-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.77	–
2	Finess by Air permeablity method (m^2/kg, Min)	272.5	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-08-01-02 **Date: 30-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-08-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	37.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Asst. Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-01-02** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1318	1318	8.8	91.2	90-100
3	20 mm	5182	6500	43.3	56.7	30-70
4	10 mm	5895	12395	82.6	17.4	10-35
5	4.75 mm	2143	14538	96.9	3.1	0-5
6	Pan	462	15000	100.0	0	---

Asst. Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-08-01-02 **Date: 04-08-17**

Sample ID No : 2017-08-01-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.22	–

Note:

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Asst. Executive Engineer
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-01-02** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	373	373	7.5	92.5	90-100
3	10 mm	2278	2651	53.0	47.0	25-55
4	4.75 mm	1894	4545	90.9	9.1	0-10
5	Pan	455	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-08-01-02 **Date: 04-08-17**

Sample ID No : 2017-08-01-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.58	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	24.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-08-01-02** **Date: 04-08-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-17
Sample ID No	:	2017-08-01-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-08-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	78	135	13.5	86.5	60-95	75-100	85-100	95-100
4	1.18 mm	257	392	39.2	60.8	30-70	55-90	75-100	90-100
5	600 micron	228	620	62.0	38.0	15-34	35-59	60-79	80-100
6	300 micron	223	843	84.3	15.7	5-20	8-30	12-40	15-50
7	150 micron	89	932	93.2	6.8	0-10	0-10	0-10	0-15
8	Pan	68	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-01-02** **Date: 04-08-17**

Sample ID No : 2017-08-01-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.09	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-14-03** **Date: 17/08/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-03/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/08/2017	17/08/2017	150.82 X 150.51 X 150.19	22700	8.132	410.9	18.1	18.2
2	Drain Concrete	M20	10/08/2017	17/08/2017	151.04 X 150.23 X 150.11	22691	8.164	426.6	18.8	
3	Drain Concrete	M20	10/08/2017	17/08/2017	151.92 X 150.16 X 150.72	22812	8.206	403.8	17.7	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/09/2017

Lab ID	:	CP-2017-08-14-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-03/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/08/2017	07/09/2017	149.11 X 151.98 X 150.66	22662	8.182	505.4	22.3	22.6
2	Drain Concrete	M20	10/08/2017	07/09/2017	150.55 X 150.29 X 149.66	22626	8.176	522.7	23.1	
3	Drain Concrete	M20	10/08/2017	07/09/2017	150.76 X 150.81 X 150.26	22736	8.154	511.6	22.5	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-14-03** **Date: 18/08/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.
Agency	:	Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)EPMT-08/W.O/50/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-03/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/08/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/08/2017	18/08/2017	150.23 X 150.14 X 150.26	22556	8.246	397.0	17.6	17.8
2	Drain Concrete	M20	11/08/2017	18/08/2017	150.46 X 150.29 X 150.87	22613	8.220	400.2	17.7	
3	Drain Concrete	M20	11/08/2017	18/08/2017	150.19 X 150.10 X 150.32	22544	8.232	408.0	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-08-14-03 **Date: 08/09/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC roads in Edga Maidana in Ward no.02, Yelahanka Sub Division.

Agency : Sri. N. Shivakumar, No.96, KHB Colony, Gandhinagara, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)EPMT-08/W.O/50/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-17

Sample ID No : 2017-08-14-03/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/08/2017	08/09/2017	150.32 X 150.13 X 150.32	22568	8.290	501.0	22.2	22.7
2	Drain Concrete	M20	11/08/2017	08/09/2017	149.77 X 149.32 X 150.22	22364	8.190	507.7	22.7	
3	Drain Concrete	M20	11/08/2017	08/09/2017	149.10 X 151.32 X 150.55	22562	8.220	521.2	23.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****